

What is claimed is:

1. A fan holder for attaching a fan to one side of a heat sink, comprising:
  - a base comprising a first surface and a second surface, and defining an opening through the first and second surfaces for providing access of air flow from the fan to the heat sink;
  - two clamping arms extending from opposite side edges of the first surface of the base respectively, each clamping arm comprising a hook for clamping the fan to the fan holder; and
  - engaging means extending from opposite side edges of the second surface of the base for engaging with the heat sink to thereby attach the fan to the heat sink.
2. The fan holder of claim 1, wherein the hook is defined at an end of the clamping arm.
3. The fan holder of claim 1, wherein the engaging means comprises at least two clamping tabs extending from the second surface of the base, each tab forming a hook at one end thereof for engaging with the heat sink.
4. The fan holder of claim 1, wherein a positioning post is formed on a respective corner of the first surface of the base for locating the fan to the base.
5. A heat dissipation device comprising:
  - a heat sink comprising a base defining a longitudinal direction and a lateral direction, and a plurality of parallel fins extending from the base and parallel to the longitudinal direction;
  - a fan provided at one end of the heat sink in the longitudinal direction; and

a fan holder for attaching the fan to the heat sink, the fan holder comprising:

a rectangular base comprising a first surface and a second surface;

two clamping arms extending from opposite sides of the first surface of the base and sandwiching the fan therebetween thereby fixing the fan to the holder; and

two engaging means extending from opposite sides of the second surface of the base and engaging with the heat sink to retain the fan holder to the heat sink in the longitudinal direction and the lateral direction; wherein

a locating means is formed at one of the fan holder and the heat sink for locating the fan holder to the heat sink along an extending direction of the fins from the base.

6. The heat dissipation device of claim 5, wherein at least one groove is defined perpendicularly through the fins of the heat sink.
7. The heat dissipation device of claim 5, wherein the fan defines four holes and the fan holder forms four positioning posts on four respective corners of the first surface of the base received in the holes for locating the fan to the base.
8. The heat dissipation device of claim 5, wherein each clamping arm defines a hook inwardly formed at an end thereof and snappingly engaged with the fan.
9. The heat dissipation device of claim 5, wherein said two engaging means comprise two clamping tabs, each tab forming a hook at one end thereof engaging with a corresponding fin.
10. The heat dissipation device of claim 9, wherein the locating means comprises two protrusions formed at a pair of the fins and the two clamping tabs are supported on the

protrusions respectively.

11. A heat dissipation device comprising:

a heat sink defining a plurality of fins extending from a base in rows and columns;

a pair of protrusions formed on two opposite fins in an outermost row;

a fan holder made from sheet metal and including:

a planar base defining an large central opening;

a pair of clamping arms respectively extending from corresponding opposite edges of said base in a first direction;

a pair of tabs respectively stamped and bent from the corresponding clamping arms in a second direction opposite to the first direction with openings left in the corresponding clamping arms; and

a fan attached to said fan holder by said pair of clamping arms; wherein

said pair of tabs respectively engage the corresponding fins for attaching the fan holder to the heat sink.

12. The device of claim 11, wherein each of said tab further defines an opening latchably receiving the corresponding protrusion therein.

13. The device of claim 11, wherein said opposite edges are outer edges of the base.